

Section II
Soil and Site Information

Construction Materials Table 2
Beadle County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ao: Worthing-----	100	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.00	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00
BaA: Beadle-----	85	Fair Too clayey Low content of organic matter Water erosion	0.32 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.21
BaB: Beadle-----	85	Fair Too clayey Low content of organic matter Water erosion	0.32 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.21
BaC: Beadle-----	90	Fair Too clayey Low content of organic matter Water erosion	0.32 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.21
BdA: Beadle-----	55	Fair Too clayey Low content of organic matter Water erosion	0.32 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.21

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dudley-----	30	Poor Sodium content Too clayey Salinity Water erosion	0.00 0.00 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Salinity Too Clayey Sodium content	0.00 0.00 0.00 0.78
BeD: Betts-----	85	Fair Low content of organic matter Carbonate content	0.12 0.92	Poor Low strength Slope Shrink-swell	0.00 0.08 0.87	Poor Slope Hard to reclaim Rock fragments Carbonate content	0.00 0.68 0.68 0.92
BfD: Betts-----	45	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.00 0.92
Ethan-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.37 0.68
BnA: Blendon-----	85	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Bo: Bon-----	90	Fair Low content of organic matter	0.50	Poor Depth to permafrost Low strength	0.00 0.22	Poor Depth to permafrost	0.00
Bx: Bon-----	90	Fair Low content of organic matter	0.50	Poor Depth to permafrost Low strength	0.00 0.22	Poor Depth to permafrost	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CaA: Carthage-----	85	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.99	Poor Depth to permafrost	0.00
CaB: Carthage-----	85	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.99	Poor Depth to permafrost	0.00
CaC: Carthage-----	85	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.99	Poor Depth to permafrost	0.00
CbA: Carthage-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.99	Poor Depth to permafrost	0.00
Blendon-----	35	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
CbB: Carthage-----	55	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.99	Poor Depth to permafrost	0.00
Blendon-----	30	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DaB: Davis-----	100	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
DeA: Delmont-----	85	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.76	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
DfB: Delmont-----	65	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.76	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
Talmo-----	20	Poor Too sandy Droughty Low content of organic matter	0.00 0.08 0.12	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
Dg: Doger-----	85	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.50 0.82	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy	0.00 0.00
DkA: Dudley-----	50	Poor Sodium content Too clayey Salinity Water erosion	0.00 0.00 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Salinity Too Clayey Sodium content	0.00 0.00 0.00 0.78

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Jerauld-----	35	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00
DsA: Dudley-----	45	Poor Sodium content Too clayey Salinity Water erosion	0.00 0.00 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Salinity Too Clayey Sodium content	0.00 0.00 0.00 0.78
Stickney-----	35	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.50 0.88 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.69	Poor Depth to permafrost Too Clayey Salinity	0.00 0.00 0.00
DtA: Dudley-----	55	Poor Sodium content Too clayey Salinity Water erosion	0.00 0.00 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Salinity Too Clayey Sodium content	0.00 0.00 0.00 0.78
Tetonka-----	20	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.17	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Du: Durrstein-----	85	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to permafrost Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Sodium content Depth to saturated zone Too Clayey Salinity	0.00 0.00 0.00 0.00 0.00
Eg: Egas-----	85	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.50 0.50 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Salinity Depth to saturated zone Too Clayey	0.00 0.00 0.00 0.00
Em: Elsmere-----	85	Poor Too sandy Wind erosion	0.00 0.00	Poor Depth to permafrost Depth to saturated zone	0.00 0.53	Poor Depth to permafrost Too sandy Depth to saturated zone	0.00 0.00 0.53
EnA: Enet-----	85	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
EnB: Enet-----	90	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FoA: Forestburg-----	85	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Too sandy	0.00 0.00
FoB: Forestburg-----	85	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Too sandy	0.00 0.00
FrA: Forestburg-----	45	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Too sandy	0.00 0.00
Doger-----	35	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.50 0.82	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy	0.00 0.00
FrB: Forestburg-----	50	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Too sandy	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Doger-----	30	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.50 0.82	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy	0.00 0.00
Ga: Grat-----	85	Poor Too clayey	0.00	Poor Depth to saturated zone Shrink-swell	0.00 0.90	Poor Too Clayey Depth to saturated zone Hard to reclaim	0.00 0.00 0.50
GbA: Bend-----	90	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.92	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Carbonate content	0.00 0.92
GzB: Bend-----	65	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.92	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Carbonate content	0.00 0.92
Edwin-----	35	Poor Sodium content Low content of organic matter Water erosion Carbonate content	0.00 0.12 0.90 0.97	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Sodium content Salinity	0.00 0.00 0.50
HaA: Hand-----	50	Fair Low content of organic matter	0.12	Poor Depth to permafrost Shrink-swell	0.00 0.94	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bonilla-----	35	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
HaB: Hand-----	55	Fair Low content of organic matter	0.12	Poor Depth to permafrost Shrink-swell	0.00 0.94	Poor Depth to permafrost	0.00
Bonilla-----	30	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
HbC: Hand-----	50	Fair Low content of organic matter	0.12	Poor Depth to permafrost Shrink-swell	0.00 0.94	Poor Depth to permafrost	0.00
Ethan-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
HcB: Houdek-----	90	Fair Low content of organic matter	0.12	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Hard to reclaim Rock fragments	0.00 0.95 0.95
HdB: Houdek-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dudley-----	35	Poor Sodium content Too clayey Salinity Water erosion	0.00 0.00 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Salinity Too Clayey Sodium content	0.00 0.00 0.00 0.78
HeB: Houdek-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Ethan-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
HeC: Houdek-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Ethan-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
HoA: Houdek-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Prosper-----	35	Fair Low content of organic matter Too clayey Water erosion	0.12 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.93
HoB: Houdek-----	55	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Prosper-----	30	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.12 0.80 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.93
Hv: Hoven-----	90	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00
La: Ladelle-----	85	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.93	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lm: Lamo-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.53 0.87	Poor Depth to permafrost Depth to saturated zone	0.00 0.53
LnA: Lane-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00
Lo: Loup-----	90	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.88 0.88	Poor Depth to permafrost Depth to saturated zone	0.00 0.00	Poor Depth to permafrost Too sandy Depth to saturated zone	0.00 0.00 0.00
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Mo: Mobridge-----	90	Fair Low content of organic matter Water erosion Too clayey	0.50 0.90 0.98	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.91	Poor Depth to permafrost Too Clayey	0.00 0.97

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OkB: Oko-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00
OkD: Oko-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey Slope	0.00 0.00 0.00
Pg: Orthents, Gravelly--	100	Fair Droughty Low content of organic matter Too sandy	0.05 0.12 0.14	Poor Slope	0.00	Poor Rock fragments Slope Too sandy Hard to reclaim	0.00 0.00 0.14 0.18
PrA: Prosper-----	55	Fair Low content of organic matter Too clayey Water erosion	0.12 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.93
Davison-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.84 0.99	Poor Depth to permafrost Depth to saturated zone	0.00 0.98	Poor Depth to permafrost Carbonate content Depth to saturated zone	0.00 0.84 0.98

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sh: Shue-----	85	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.12 0.99	Poor Depth to permafrost Depth to saturated zone Low strength Shrink-swell	0.00 0.53 0.78 0.98	Poor Depth to permafrost Too sandy Depth to saturated zone	0.00 0.00 0.53
Sp: Spottswood-----	85	Fair Low content of organic matter	0.12	Good		Poor Hard to reclaim	0.00
St: Stickney-----	60	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.50 0.88 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.69	Poor Depth to permafrost Too Clayey Salinity	0.00 0.00 0.00
Jerauld-----	25	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00
Ta: Tetonka-----	100	Poor Wind erosion Too clayey	0.00 0.00	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.38	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00

Section II
Soil and Site Information

Construction Materials Table 2
Beadle County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Te: Tetonka-----	75	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.17	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00
Hoven-----	20	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00 0.00
W: Water-----	100	Not rated		Not rated		Not rated	
ZeC: Edwin-----	90	Poor Sodium content Low content of organic matter Water erosion Carbonate content	0.00 0.12 0.90 0.97	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Sodium content Salinity Slope	0.00 0.00 0.50 0.96

